

more material, an expert specialist in ferns could do no better. An excellent pteridologist was wasted in William Stout.¹

GRAY HERBARIUM

REPORTS ON THE FLORA OF THE BOSTON
DISTRICT,—XLIV.

COMPOSITAE.

ASTER.

A. acuminatus Michx. Low woods; frequent, but no reports south of Norwell, Rockland and Norwood.

A. amethystinus Nutt. Moist ground, rare; Beverly, Cambridge, Arlington, Belmont, Brighton; Westford, according to Dame & Collins, Fl. Middlesex Co. 48, 1888.

A. COMMUTATUS (T. & G.) Gray. Railway, Lowell Junction [Wilmington] (*J. R. Churchill*, Sept. 27, 1884). Specimen in herb. J. R. Churchill. A western waif.

A. cordifolius L. Low ground, common throughout.

A. cordifolius L., var. **polycephalus** Porter. Open woods, common, Danvers (*J. H. Sears*, Sept. 20, 1884); Medford (*Mrs. P. D. Richards*, no date); Winchester (*F. W. Grigg*, Sept. 23, 1911); Cambridge (*F. W. Grigg*, Sept. 28, 1921).

A. divaricatus L. Dry woods, very common throughout.

A. dumosus L. Dry fields and pastures, very common throughout.

A. dumosus L., var. **coridifolius** (Michx.) T. & G. Dry pasture, Hingham (*C. H. Knowlton*, Sept. 9, 1916); Dover (*F. W. Hunnewell*, Sept. 18, 1915); Ipswich (*Wm. Oakes*, no date); Tewksbury (no date).

A. dumosus L., var. **strictior** T. & G. Damp border of South Reservoir, Medford (*W. P. Rich*, July 23, 1894); dry field, Chelmsford (*C. H. Knowlton*, Sept. 7, 1914); Stony Brook Reservation (*N. T. Kidder*, Aug. 16, 1919); dry pasture, Hingham (*C. H. Knowlton*, Sept. 9, 1916); dry fields, Sharon (*J. A. Cushman*, Aug. 23, 1909).

¹ The few facts here given are all that I have been able to find out about Mr. Stout. If any reader chances to possess further information it will be welcomed by me.

I am indebted to Dr. George F. Eaton and to Prof. J. F. Collins for the loan of letters and other assistance in collecting information on some of the matters here touched upon.

A. ericoides L. Dry sandy soil; common in southern towns, becoming less common northward, with hardly any reports from Essex County.

A. ericoides L., var. **villosus** T. & G. Dry soil, Bedford (*C. W. Jenks & M. L. Fernald*, Sept. 10, 1899); dry open ground, Stoneham (*F. W. Grigg*, Nov. 5, 1911); dry field, Hingham (*C. H. Knowlton*, Sept. 18, 1910); dry field, Halifax (*C. H. Knowlton & W. P. Rich*, Sept. 23, 1906).

A. Herveyi Gray. Borders of dry oak woods, rare; Brookline, W. Roxbury, Hyde Park, Milton. First discovered in 1866 at New Bedford by E. W. Hervey.

A. infirmus Michx. Dry open woods, rare; Lincoln, Lexington, Concord, Carlisle; Acton (*C. W. Swan*) according to Dame & Collins, Fl. Middlesex Co. 48, 1888.

A. laevis L. Dry sandy soil; very common except in southeastern towns below Weymouth and Hingham. Broad-leaved form (var. **amplifolius** Porter) reported from Essex County and W. Roxbury.

A. lateriflorus (L.) Britton. Open ground, wet or dry, very common and variable.

A. lateriflorus (L.) Britton, var. **hirsuticaulis** (Lindh.) Porter. Mt. Hope Station, W. Roxbury (*E. Faxon*, Oct. 2, 1889). Specimen in herb. W. Deane.

A. linariifolius L. Dry sandy and gravelly soil, very common throughout. White-flowered form rare.

A. longifolius Lam. Moist soil, rare; Georgetown, Medford, Lexington, Brighton, W. Roxbury, Stony Brook Reservation, Blue Hill Reservation.

A. macrophyllus L. Woods and low ground; common in general, but not reported from southeastern towns below Hingham.

A. macrophyllus L., var. **ianthinus** (Burgess) Fernald. In similar places, occasional; Ipswich, Cambridge, Dorchester, Milton, Sherborn, Hopkinton.

A. multiflorus Ait. Dry fields and roadsides, very common throughout.

A. multiflorus Ait., var. **exiguus** Fernald. On rocks at edge of sea, Pride's Crossing, Beverly (*Miss Anna L. Jackson*, Oct. 2, 1894); Dedham (*C. E. Faxon*, no date); dry soil, Hingham (*C. H. Knowlton*, Oct. 8, 1916).

A. nemoralis Ait. Wet sphagnum bogs, rare; Georgetown, Boxford, Andover, Tewksbury, Lynn, Melrose, Milton (plants from Milton not quite typical); Dracut (*C. W. Swan*) according to Dame & Collins, Fl. Middlesex Co. 48, 1888.

A. nemoralis Ait., var. **Blakei** Porter. Wet woods and swamps, rare; Hamilton (*F. W. Hunnewell*, Oct. 1, 1916); Chelmsford (*C. H. Knowlton*, Sept. 20, 1902); Bedford (*C. W. Jenks*, Aug. 26, 1889 et seq.).

A. novae-angliae L. Moist fields and meadows, frequent and often abundant, but not reported south of Scituate, Hingham and Canton. White form reported from Woburn, according to M. P. Cook, RHODORA i. 82, 1899.

A. novae-angliae L., forma **roseus** (Desf.) Britton, Proc. Nat. Sci. Assn. Staten Isl., Nov. 8, 1890. Andover, Salem, Cambridge, Boston, Acton, Hingham, Scituate.

A. novi-belgii L. Swamps and wet places, very common throughout.

A. novi-belgii L., var. **atlanticus** Burgess. "Chelsea Beach," Revere (*C. E. Faxon*, no date). Specimen in herb. Gray. See Britton & Brown's Illustrated Flora iii. 370-371, 1898, ed. 1.

A. novi-belgii L., var. **Brittonii** Burgess. Salt marsh, "Chelsea Beach," Revere, collector and date unknown; railway track, Longwood [Brookline] (Sept. 30, 1877, collector unknown.) Specimens in herb. Gray. See Britton & Brown's Illustrated Flora, iii. 370-371, 1898, ed. 1.

A. novi-belgii L., var. **laevigatus** (Lam.) Gray. Wet places; Middlesex Fells, Cambridge, Chelsea, Sherborn, Sharon. A large-flowered variety, with thin leaves, and loose, nearly equal bracts in the involucre. Seldom collected, and not well known.

A. novi-belgii L., var. **litoreus** Gray. Salt marshes and rocky seashores, common.

A. novi-belgii L., forma **roseus** Rand & Redfield. See Rand & Redfield, Fl. Mt. Desert, Maine, 115, 1894. A single fair-sized clump growing a little above the level of the salt marsh, Salisbury (*R. S. Mulliken*, Sept. 29, 1920). Specimen in herb. Gray.

A. paniculatus Lam. Swamps and moist places, irregularly distributed throughout.

A. paniculatus Lam., var. **acutidens** Burgess. Stony Brook near

Boylston station, Jamaica Plain (*E. Faxon*, Oct. 9, 1883; Sept. 15, 1889). Specimens in herb. W. Deane.

A. paniculatus Lam., var. **simplex** (Willd.) Burgess. Roadside near Punkatasset Hill, Concord (*E. Faxon*, Oct. 3, 1890). Specimen in herb. W. Deane.

A. patens Ait. Dry fields and woods, common throughout.

A. polyphyllus Willd. Dry soil, rare; "Essex Co.," Medford, Hingham.

A. puniceus L. Swamps and wet woods, common throughout.

A. puniceus L., var. **compactus** Fernald. Low ground, occasional (12 stations).

A. puniceus L., var. **demissus** Lindl. Marsh, W. Somerville (*M. L. Fernald*, Oct. 17, 1896). Specimen in herb. N. E. Botanical Club.

A. puniceus L., var. **firmus** (Nees) T. & G. Jamaica Plain [W. Roxbury] (*E. Faxon*, October, 1883).

A. radula Ait. Borders of woods and swamps; frequent northward, but no reports from southeastern towns.

A. salicifolius Ait. Moist soil, rare; Lowell, Lexington, Revere, Hingham; Malden (*H. L. Moody*) according to Dame & Collins, Fl. Middlesex Co. 47, 1888. A doubtful species in our area.

A. spectabilis Ait. Dry sandy soil; frequent from Brookline and Needham south and east; also at Boxford.

A. subulatus Michx. Salt marshes, common along the coast.

A. tardiflorus L. Woburn (*Wm. Boott*, 1849). Specimen in herb. Gray.

A. tenuifolius L. Salt marshes; Ipswich, Medford, Dorchester, Weymouth, Hingham, Duxbury.

A. Tradescanti L. Collected without data as to habitat at Danvers, Medford, Needham, and Jamaica Plain. A doubtful species in our area.

A. umbellatus Mill. Swamps and thickets, common throughout.

A. undulatus L. Dry fields and woods, very common throughout.

A. vimineus Lam. Moist fields and meadows, very common throughout.

A. vimineus Lam., var. **foliolosus** (Ait.) Gray. Andover, Malden, Lynn, Marshfield.

A. vimineus Lam., var. **saxatilis** Fernald. Lowell (*C. W. Swan*, July 20, 1882); bank of Merrimac River opposite Lawrence (*J.*

Robinson, Aug. 5, 1879); shore of Winter Pond, Winchester (*K. M. Wiegand*, Sept. 28, 1908).

A. undulatus L. × **novi-belgii** L. See M. L. Fernald, *RHODORA* iv. 186–187, 1902. Damp sandy thicket, Carlisle (*Miss E. L. Shaw*, October 1900 and 1901).

Other hybrids have been reported for this genus in our area, but none of them has been published. As some of the species show a great natural variability, and the question of the origin of the reported forms is at best a very difficult one to settle, it has seemed best to omit the reported hybrids from this paper.

BACCHARIS.

B. HALIMIFOLIA L. Escaped from cultivation in Cambridge, in Brighton, in the Fenway district of Boston, and perhaps elsewhere.

BAERIA.

B. GRACILIS Gray, var. **TENERRIMA** Gray. N. Chelmsford (*W. P. Alcott*, June 4, 1879). Specimen in herb. Peabody Acad. Sci. Adventive from California.

B. ULIGINOSA Gray. N. Chelmsford (*W. P. Alcott*, June 10, 1879). Specimen in herb. Peabody Acad. Sci. Adventive from California.

BELLIS.

B. PERENNIS L. Escaped from cultivation at Oak Grove, Malden (*F. S. Collins*, May 31, 1886). Specimen in herb. N. E. Botanical Club.

BIDENS.

B. ARISTOSA (Michx.) Britton. Dump, Lowell (*C. W. Swan*, Sept. 9, 1884); rubbish heap, Botanic Garden, Cambridge (*M. L. Fernald*, 1890).

B. ARISTOSA (Michx.) Britton, var. **FRITCHEYI** Fernald. See *RHODORA* xv. 74–78, 1913. Made land, S. Boston (*C. E. Faxon*, August, 1878). Specimen in herb. Gray.

B. ARISTOSA (Michx.) Britton, var. **MUTICA** (Gray) Gattinger. See *RHODORA* l. c. Soldiers Field, Brighton (*A. S. Pease*, Oct. 6, 1903); Sharon (*S. F. Poole*, September, 1905).

[*B. Beckii* Torr. is recorded under *Megalodonta*.]

B. BIPINNATA L. A rare weed at Lowell, Malden, Boston and Dedham.

B. cernua L. Swamps and wet places; not reported southeast of Blue Hills and Hingham, but frequent elsewhere.

B. cernua L., var. **elliptica** Wiegand. See Torr. Bull. xxvi. 417-418, 1899; RHODORA xxiv. 206-207, 1922. Occasional north of Boston, also at Sharon.

B. cernua L., var. **oligodonta** Fernald & St. John. See RHODORA xvii. 25, 1915. Fleshy form near salt water, Watertown (*F. S. Collins*, Aug. 24, 1886). Specimen in herb. N. E. Botanical Club.

B. comosa (Gray) Wiegand. Rich moist soil, rare (eight stations).

B. connata Muhl. Moist soil, common.

B. connata Muhl., var. **fultior** Fernald & St. John. See RHODORA xvii. 24, 1915. Shore of Lake Massapoag, Sharon (*E. F. Williams*, Sept. 10, 1899). Specimen in herb. Gray.

B. connata Muhl., var. **petiolata** (Nutt.) Farwell. See RHODORA x. 197-200, 1908. Occasional from Salisbury to Duxbury along the coast, inland to Concord and Needham.

B. coronata (L.) Britton. (Includes *B. trichosperma* (Michx.) Britton and var. *tenuiloba* (Gray) Britton. Bot. Gaz. 56, 495, 1913). Swamps. Common and very abundant in Essex County, also along the Neponset and its tributary brooks in Norfolk County, and at Easton and Raynham in Bristol County; occasional in Middlesex County.

C. H. KNOWLTON } Committee on
WALTER DEANE } Local Flora.

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